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# WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

March 24, 2011

TO: File

THRU: James D. Smith, Permit Supervisor *DS 24 March 11*

FROM: April A. Abate, Environmental Scientist III *AAA 3-24-2011*

SUBJECT: 2010 3rd Quarter Water Monitoring, Andalex Resources, Centennial Mine, C/007/0019, Task ID #3623

The Centennial Mine is currently in temporary cessation. No mining or coal processing activities currently take place there, nor is the site in active reclamation. Sections 711.300 pages 7-2 through 7-10 and Appendix L of the MRP pertain to water monitoring. Water sampling locations are shown on Figure IV-11.

## 1. Were data submitted for all of the MRP required sites?

### Springs

YES ☒ NO ☐

The spring in Deadman Canyon below the confluence of the Left and Right Forks of Deadman Canyon is sampled quarterly.

The spring reported no flow during the third quarter of 2010.

### Streams

YES ☒ NO ☐

Stream sample 18-3 at the left fork of Deadman wash has not flowed since May 2008, which was right around the same time the mine shut down. Stream sample 18-4 has not flowed since 2005. Both locations are surface water points located below the mine.

### Wells

YES ☒ NO ☐

Well #1 was sampled during the 3rd quarter of 2010.

### UPDES

YES ☒ NO ☐

All UPDES locations were monitored monthly in accordance with the permit. No discharge from any of the sample locations was reported for the 3rd quarter of 2010. Discharge has not been reported from any of the UPDES locations since June 2008, which was right around

the same time the mine shut down.

**2. Were all required parameters reported for each site?**

**Springs**

YES ☐ NO ☐

Not applicable this quarter.

**Streams**

YES ☐ NO ☐

Not applicable this quarter.

**Wells**

YES ☒ NO ☐

**UPDES**

YES ☐ NO ☐

Not applicable this quarter.

**3. Were any irregularities found in the data?**

**Springs and Pond**

YES ☐ NO ☐

Not applicable this quarter.

**Streams**

YES ☐ NO ☐

Not applicable this quarter.

**Wells**

YES ☒ NO ☐

Total and dissolved iron concentrations were elevated in the 3rd quarter of 2010.

**UPDES**

YES ☐ NO ☐

Not applicable this quarter.

**4. Did the Permittee make a timely submittal of all data, including initially missing data, and satisfactorily explain irregular data?**

YES ☒ NO ☐

**5. Does the Mine Permittee need to submit more information to fulfill this quarter's monitoring requirements?**

YES ☐ NO ☒

The permittee was not able to gauge the depth to water level in monitoring well #1 due to the probe being stuck in the well.

**6. Based on your review, what further actions, if any, do you recommend?**

Well #1 continues to have maintenance issues and requires reevaluation.

**7. Follow-up from last quarter, if necessary.**

None

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